

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1 - 34 (canceled)

35. (currently amended) An isolated DNA molecule comprising a DNA sequence encoding at least 5 to 400 contiguous amino acids ~~or less~~ of a Jak 3 peptide of SEQ ID NO:16, wherein said peptide contains the Jak3 autophosphorylation site, and wherein said Jak3 autophosphorylation site includes the amino acid sequence KDYY (SEQ ID NO:17).

36. (previously presented) The isolated molecule of claim 35 wherein said molecule encodes a polypeptide having at least one conservative amino acid substitution.

37 - 41 (canceled)

42. (currently amended) An isolated DNA molecule comprising at least 100 nucleotides, wherein said DNA molecule hybridizes to a DNA sequence encoding amino acids of a ~~Jak3 peptide~~ of SEQ ID NO: 16, wherein said DNA molecule encodes a polypeptide that includes an peptide the Jak3 autophosphorylation site, ~~wherein said Jak3~~ autophosphorylation site ~~includes~~ including the amino acid sequence KDYY (SEQ ID

NO:17), and wherein said hybridization is done at 65° C in 750 mM NaCl and a final washing is done at 65° C in 15 mM NaCl.

43 - 44 (canceled)

45. (previously presented) An expression vector, comprising the isolated DNA molecule of claim 35 wherein said vector expresses said Jak3 peptide in a host cell.

46. (previously presented) An isolated host cell comprising the expression vector of claim 45.

47-51 (canceled)

52. (new) The isolated DNA molecule of claim 35 comprising a DNA sequence encoding at least 5 to 335 contiguous amino acids of a Jak 3 peptide of SEQ ID NO:16.

53. (new) The isolated DNA molecule of claim 35 comprising a DNA sequence encoding at least 15 to 400 contiguous amino acids of a Jak 3 peptide of SEQ ID NO:16.